

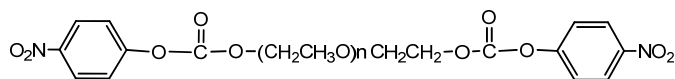
**TECHNICAL DATA SHEET****Nitrophenyl carbonate PEG nitrophenyl carbonate,**

Catalog Numbers: PG2-NPC-1k, 2k, 5k, 10k, 20k.

Synonym: NPC PEG NPC

**Description:**

Nitrophenyl carbonate (NPC) functionalized polyethylene glycol (**NPC-PEG-NPC**) is an amine (-NH<sub>2</sub>) reactive homobifunctional PEG derivative that can be used to modify protein, peptide or any other surfaces. **PEG NPC** ester reacts with primary amine groups at pH 7~10 to form a stable amide bond. Primary amines react with NPC esters by nucleophilic attack and nitrophenol is released as a byproduct. Hydrolysis of the NPC-ester competes with the NPC amine reaction in aqueous solution. PEG linker bridged two NPC esters offers good water solubility, less steric hindrance and enhanced stability.

**Product Structure:****Product Specifications:**

- Composition: Di-nitrophenyl carbonate PEG.
- Appearance: White/Off-white solid or semi-solid depends on molecular weight.
- Solubility: Soluble in water, chloroform, DMSO, DMF.
- Reactive group: Nitrophenyl carbonate.

**Handling and Use:**

**NPC PEG NPC** esters readily undergo hydrolysis at elevated temperature. Material should always be kept in low temperature in dry condition. Prepare fresh solution right before use. Avoid frequent thaw and freezing. For more information about using this product, visit [www.nanocs.net](http://www.nanocs.net).

**Storage Conditions:**

**Bis-NPC PEG** should be stored at -20 °C. Desiccate. Materials may be handled under inert gas for best stability. Re-test material after 6 months after receiving.

**This product is for research use only and is not intended for use in humans or for diagnostic use.**

**To Order:**Order online: [www.nanocs.net](http://www.nanocs.net)Order by Email: [sales@nanocs.com](mailto:sales@nanocs.com)

Order by phone: 1(800) 388-4221; 1(888) 908-8803

For more information, visit [www.nanocs.net](http://www.nanocs.net)